



**DEPARTMENT OF THE AIR FORCE
AIR FORCE LOGISTICS MANAGEMENT AGENCY**

**LETTER REPORT
QUALITY ASSURANCE TRACKING AND TREND ANALYSIS SYSTEM
(QANTTAS) REVISION**

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**AFLMA PROJECT NUMBER: LM199832400
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BACKGROUND: QANTTAS is an automated system used by Quality Assurance (QA) sections to track and perform trend analysis on maintenance personnel evaluations and equipment condition inspections. QANTTAS also provides the option to track other programs that are assigned to QA to include abort incidents (air or ground), dropped objects, foreign object damage, functional check flights, lost tools, impoundments, local manufacture, modification proposals, one-time inspections, quality deficiency reports, source maintenance recoverability (SMR) code change proposals, Time Compliance Technical Order monitoring, technical order improvements proposals, IDEA Program, and zero over-pricing.

The tracking and trend analysis capabilities of QANTTAS were projected to be incorporated into the Integrated Maintenance Data System (IMDS) by 1999, however, initial fielding of IMDS has been delayed until 2001, further delaying the incorporation of the QANTTAS requirements until possibly 2003. The last version of QANTTAS (3.1) was developed using dBase IV and is not Y2K compliant.

The delay of IMDS, coupled with QANTTAS 3.1 not being Y2K compliant, necessitated the need for an interim program that would allow QA sections to maintain tracking and trend analysis capabilities. The loss of a reliable system would have an adverse impact on the Quality Assurance Program (QAP).

TASKING: HQ AFRC tasked the AFLMA to create a Y2K compliant version of QANTTAS that will meet the needs of QA sections in the Air Force Reserve Command and other Air Force units until incorporated into IMDS.

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METHODOLOGY: Representatives from Air Force Reserve units met with AFLMA project team members in November 1998. Using existing software developed by the 440th Airlift Wing, General Mitchell IAP, Air Reserve Station, Wisconsin, as a baseline, the representatives defined/developed requirements for the new program, designated QANTTAS 4.0.

Preliminary programming was finished in May 1999. This was followed by three-months of preliminary testing of the program at the 908 AW/LGQ, Maxwell AFB. Throughout the test, AFLMA provided hands-on training to QA personnel and continuously diagnosed, troubleshot and fine-tuned the program as needed. Maxwell QA personnel tested the program operations to ensure the established requirements were met.

In July 1999, four units--301 FW/LGQ (fighter/attack aircraft), 352 AW/LGQ (multiple MDS aircraft), 440 AW/LGQ (cargo aircraft) and 908 AW/LGQ (cargo aircraft)--were selected as "beta" test locations. Beta testing consisted of actual data input and use of the program for three-months (July through September 1999). During the beta test, AFLMA continued to analyze, problem-solve, and adjust the program when needed.

The beta units met with AFLMA project team members for the final review of QANTTAS 4.0 in October 1999. Final programming was completed in November 1999.

CONCLUSION: QANTTAS 4.0 was developed in ACCESS 97 and designed as a Local Area Network (LAN) application. It is easier to use than QANTTAS 3.1 and incorporates many new features. Some of the new features include:

1. Multiple user access--permits multiple users to access the program at the same time.
2. "Real time" updates/inquiries--allows users at all levels from the workcenters up through the Logistics Group Commander to have access to the data.
3. E-mail capability--offers e-mail connection to notify workcenters when a response is needed on an evaluation/inspection or abort.
4. Flexible trend analysis capabilities--supplies users with standard charts and the ability to import the data into EXCEL to create additional charts.
5. Standard/Ad-hoc reports--provides the user with flexible reporting tools.

QANTTAS 4.0 presents an effective way for QA sections to continue to collect and analyze evaluation/inspection data both into the new century and until incorporated into IMDS.

RECOMMENDATION:

1. Release QANTTAS 4.0 to HQ AFRC/LGMPQ for control and distribution (Air Force wide).
2. Update AFRCI 21-101, *Aircraft Maintenance Guidance and Procedures*, authorizing QANTTAS 4.0 as the automated information system for use by Quality Assurance.
3. Update the AFLMA website to reflect the availability of QANTTAS 4.0 through HQ AFRC/LGMPQ.
4. Limit AFLMA involvement to "consulting" during the transition from AFLMA to HQ AFRC.

DISTRIBUTION: Refer to attached standard Form 298.

REPORT DOCUMENTATION PAGE

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14. ABSTRACT QANTTAS 4.0 was programmed in MS ACCESS 97 and is used by base-level Quality Assurance sections for automated tracking and trend analysis of evaluations of job proficiency, degree of training and compliance with technical data for maintenance personnel. QANTTAS 4.0 also provides the option to track the many ancillary programs that are assigned to the quality assurance section; abort (air or ground) incidents, dropped objects, foreign object damage, functional check flights, lost tools, impoundments, local manufacture, modification proposals, one-time inspections, quality deficiency reports, SMR code change proposals, TCTO monitoring, technical order improvements proposals, IDEA program, and zero overpricing.					
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